

UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER FOR PATENTS P.O. Box 1450 Alexandria, Virginia 22313-1450 www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/710,440	07/12/2004	Ching-Jun Su	WISP0044USA	4439
27765 NODTH AME	7590 02/07/2008 RICA INTELLECTILAL P	ROPERTY CORPORATION	EXAMINER	
NORTH AMERICA INTELLECTUAL PROPERTY CORPORATION P.O. BOX 506 MERRIFIELD, VA 22116 APTIBUT PARED 2), KE			
MERRIFIELD	, VA 22116		ART UNIT	PAPER NUMBER
			2629	
•				
			NOTIFICATION DATE	DELIVERY MODE
			02/07/2008	ELECTRONIC

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Notice of the Office communication was sent electronically on above-indicated "Notification Date" to the following e-mail address(es):

winstonhsu.uspto@gmail.com
Patent.admin.uspto.Rcv@naipo.com
mis.ap.uspto@naipo.com.tw

;	Application No.	Applicant(s)	
	10/710,440	SU ET AL.	
Office Action Summary	Examiner	Art Unit	·
	Ke Xiao	2629	
The MAILING DATE of this communication	appears on the cover sheet w	ith the correspondence address	S
Period for Reply			
A SHORTENED STATUTORY PERIOD FOR REWHICHEVER IS LONGER, FROM THE MAILING - Extensions of time may be available under the provisions of 37 CF after SIX (6) MONTHS from the mailing date of this communication - If NO period for reply is specified above, the maximum statutory period for reply within the set or extended period for reply will, by some Any reply received by the Office later than three months after the nearned patent term adjustment. See 37 CFR 1.704(b).	G DATE OF THIS COMMUNI R 1.136(a). In no event, however, may a n. eriod will apply and will expire SIX (6) MOI tatute, cause the application to become A	CATION. reply be timely filed NTHS from the mailing date of this commun BANDONED (35 U.S.C. § 133).	
Status			
1) Responsive to communication(s) filed on 2	23 November 2007.		
<u> </u>	This action is non-final.		
3) Since this application is in condition for allo	owance except for formal mat	ters, prosecution as to the mer	rits is
closed in accordance with the practice und	ler <i>Ex parte Quayle</i> , 1935 C.[). 11, 453 O.G. 213.	
Disposition of Claims	•		
4)⊠ Claim(s) <u>1-7</u> is/are pending in the applicati	on.		
4a) Of the above claim(s) is/are with		•	
5) Claim(s) is/are allowed.			
6)⊠ Claim(s) <u>1-7</u> is/are rejected.		•	
7) Claim(s) is/are objected to.			•
8) Claim(s) are subject to restriction are	nd/or election requirement.		
Application Papers	·	•	
9) The specification is objected to by the Exar	niner.	4	
10) The drawing(s) filed on is/are: a)	accepted or b) objected to	by the Examiner.	
Applicant may not request that any objection to	the drawing(s) be held in abeya	nce. See 37 CFR 1.85(a).	
Replacement drawing sheet(s) including the co	·		
11) The oath or declaration is objected to by the	e Examiner. Note the attache	d Office Action or form PTO-15	52.
Priority under 35 U.S.C. § 119			
12)⊠ Acknowledgment is made of a claim for for	eign priority under 35 U.S.C.	§ 119(a)-(d) or (f).	
a)⊠ All b)□ Some * c)□ None of:			
1. Certified copies of the priority docum			
2. Certified copies of the priority docum			
3. Copies of the certified copies of the		received in this National Stag	e
application from the International But * See the attached detailed Office action for a		received	
Attachment(s)			
 Notice of References Cited (PTO-892) Notice of Draftsperson's Patent Drawing Review (PTO-948) 	D N	Summary (PTO-413) (s)/Mail Date	
3) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date	· ·	Informal Patent Application	

Application/Control Number:

10/710,440 Art Unit: 2629

DETAILED ACTION

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 1-7 are rejected under 35 U.S.C. 103(a) as being unpatentable over Gould Bear (US 2004/0227731) in view of Feinstein (US 6,466,198).

Regarding **Claim 1**, Gould Bear teaches an electrical device capable of autoadjusting display direction according to a tilt of a display (Gould Bear, Figs. 18A-18D) comprising:

a housing (Gould Bear, Fig. 18A-18D element 1802);

a display panel installed on the housing for displaying images (Gould Bear, Fig. 18A-18D display panel);

a manual switch for generating a parameter for defining the tilt of the display panel (Gould Bear, Fig. 18A-18D);

a direction control device for generating direction signals (Gould Bear, Fig. 15A, and 18A-18D directional buttons);

10/710,440 Art Unit: 2629

a microcontroller for adjusting the display direction of the display panel based on the parameter, and for adjusting the indicated direction corresponding to direction signals generated by the direction control device (Gould Bear, Pg. 3 paragraph [0073], Figs. 15A, 17 and 18A-18D, as the device is rotate the displayed image is also rotated and the directional button functions are remapped).

Gould Bear fails to teach a gravity sensor for generating a sensing parameter based on a tilt of the display as claimed. Feinstein teaches a gravity sensor for generating a sensing parameter based on a tilt of the display, which is then used to define the position of the displayed image (Feinstein, Figs. 2 and 5) wherein the gravity sensor comprises:

an x-axis gravity sensor for sensing tilt in the x-coordinate direction and producing a first tilt signal (Feinstein, Fig. 5 element 82);

a y-axis gravity sensor for sensing tilt in the y-coordingate direction and producing a second tilt signal (Feinstein, Fig. 5 element 84); and

a duty signal modulator for respectively transforming the first tilt signal and the second tilt signal into first square wave and a second square wave (Feinstein, Fig. 5 elements 82 and 84, Fig. 7C), wherein the duty cycles of the first and second square waves respectively vary according to a tilting amount of the electrical device in the x-coordinate direction and the y-coordinate direction, the first and second square waves together forming the sensing parameter (Feinstein, Fig. 5 element 100).

Application/Control Number:

10/710,440 Art Unit: 2629

It would have been obvious to one of ordinary skill in the art at the time of the invention to use the gravity sensor to define the tilt of the display as taught by Feinstein in place of the generic switch of Gould Bear in order to allow for automatic sensing of orientation.

Regarding **Claim 2**, Gould Bear further teaches that the direction control device is a set of four direction buttons (Gould Bear, Fig. 17 Up Down Previous Next).

Regarding **Claim 3**, Gould Bear further teaches that the direction control device is set on the housing (Gould Bear, Figs. 15A and 18A-18D).

Regarding **Claim 4**, Gould Bear further teaches that the direction control device is a joystick connected to the housing of the electronic device (Gould Bear, Pg. 10 paragraph [0134]).

Regarding **Claim 5**, Gould Bear further teaches the electronic device being capable of displaying the images in four different directions (Gould Bear, Fig. 18A-18D).

Regarding **Claim 6**, Gould Bear in view of Feinstein further teaches that the microcontroller switches the display direction of the display panel when the tilt angel detected by the gravity sensor reaches a predetermined angle (Gould Bear, Pg. 3 paragraph [0073], Figs. 15A, 17 and 18A-18D, Feinstein Figs. 1, 5 and 7).

Regarding **Claim 7**, Gould Bear further teaches that the electrical device is a tablet PC (Gould Bear, Pg. 10 paragraph [0136]).

Response to Arguments

Applicant's arguments with respect to Claims 1-7 have been considered but are moot in view of the new ground(s) of rejection.

Conclusion

Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Ke Xiao whose telephone number is (571)272-7776. The examiner can normally be reached on Monday through Friday from 8:30AM to 5:00PM.

Art Unit: 2629

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Sumati Lefkowitz can be reached on (571) 272-3638. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

January 28, 2008 - kx -

SUMATI LEFKOWITZ
SUPERVISORY PATENT EXAMINER

Page 6